



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10253096 A**(43) Date of publication of application: **25.09.98**

(51) Int. Cl.

**F24F 3/16****B01D 53/38****B01D 53/74****B01D 53/86**(21) Application number: **09079219**(22) Date of filing: **14.03.97**(71) Applicant: **KAWASAKI SETSUBI KOGYO KK**(72) Inventor:  
**KATAOKA MASAYUKI**  
**TAJIRI SHIRO**  
**FUJITA TSUTOMU****(54) AIR CONDITIONER WITH STERILIZING AND DEODORIZING MEANS**

and deodorizing operations is provided in a duct 44.

COPYRIGHT: (C)1998,JPO

**(57) Abstract:**

**PROBLEM TO BE SOLVED:** To sufficiently treat sterilizing and deodorizing of the air of an air conditioner by providing an air purifier in parallel with the conditioner, providing a sterilizing and deodorizing means made of an ozonolytic catalyst unit, and switching a room and conditioner for sterilizing or deodorizing in response to manned or unmanned time.

**SOLUTION:** The air conditioner 1 comprises a prefilter 5, intermediate performance filter 6, heat exchanger 8, humidifier 10 and a blower 9. Antibacterial agent is contained in a coated film and held on a surface of the conditioner 1 at its inside, or an ultraviolet lamp 13 is provided in the conditioner 1, and a photocatalyst 22 is provided in an inner wall of the conditioner 1. Meanwhile, the prefilter 5, ultraviolet lamp 13, photocatalyst 14, ozone generator 15, ozone supply port 16, ozonolytic catalyst unit 17, and fan 12 are provided in an air purifier 2. To effectively circulate in response to unmanned or manned state, automatic switching valves 31, 32 and check valve 33 are provided, and a flow control valve 34 for regulating sterilizing

